

STATEMENT OF BASIS

as required by LAC 33:IX.3109, for draft Louisiana Pollutant Discharge Elimination System Permit No. LA0075329; AI 19340; PER20050001 to discharge to waters of the State of Louisiana as per LAC 33:IX.2311.

The permitting authority for the Louisiana Pollutant Discharge Elimination System (LPDES) is:

Louisiana Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

- I. THE APPLICANT IS:** Town of Pearl River
Pearl River Municipal Sewer Treatment Plant
P.O. Box 1270
Pearl River, LA 70452
- II. PREPARED BY:** Jim Bondy
- DATE PREPARED:** March 31, 2006
- III. PERMIT ACTION:** reissue LPDES permit LA0075329, AI 19340; PER20050001
- LPDES application received: July 6, 2005
- LPDES permit issued: January 1, 2001
LPDES permit expired: December 31, 2005

IV. FACILITY INFORMATION:

- A. The application is for the discharge of treated sanitary wastewater from a publicly owned treatment works serving the Town of Pearl River.
- B. The permit application does not indicate the receipt of industrial wastewater.
- C. The facility is located at 65136 Hwy 3081, Pearl River, in St. Tammany Parish.
- D. The treatment facility consists of an activated sludge sewer treatment plant with mechanical aeration. Disinfection is by chlorination.
- E. Outfall 001

Discharge Location: Latitude 30° 22' 40" North
Longitude 89° 44' 31" West

Description: treated sanitary wastewater

Design Capacity: 0.500 MGD

Type of Flow Measurement which the facility is currently using:

Totalizing Meter / Continuous Recorder

V. RECEIVING WATERS:

The discharge is into Old Pearl River; thence into the West Pearl River in segment 090202 of the Pearl River Basin. This segment is listed on the 303(d) list of impaired waterbodies.

The designated uses and degree of support for Segment 090202 of the Pearl River Basin are as indicated in the table below^{1/}:

Overall Degree of Support for Segment	Degree of Support of Each Use						
Partial	Primary Contact Recreation	Secondary Contact Recreation	Propagation of Fish & Wildlife	Outstanding Natural Resource Water	Drinking Water Supply	Shell fish Propagation	Agriculture
	Full	Full	Not Supported	Not Supported*	N/A	N/A	N/A

^{1/}The designated uses and degree of support for Segment 090202 of the Pearl River Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2004 Water Quality Management Plan, Water Quality Inventory Integrated Report, Appendix A, respectively.

*The use and degree of support for outstanding natural resource waterbody as indicated in LAC 33:IX.1111.G applies only to those waterbodies specifically identified in LAC 33:IX.1123 (Table 3), and not to their tributaries or distributaries unless so specified. Because Old Pearl River is not listed specifically in Table 3, this waterbody is not subject to the designated use of outstanding natural resource waterbody.

VI. ENDANGERED SPECIES:

The receiving waterbody, Subsegment 090202 of the Pearl River Basin, is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U. S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated October 21, 2005 from Watson (FWS) to Gautreaux (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. It was determined that the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat.

VII. HISTORIC SITES:

The discharge is from an existing facility location, which does not include an expansion beyond the existing perimeter. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the 'Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits' no consultation with the Louisiana State Historic Preservation Officer is required.

VIII. PUBLIC NOTICE:

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

For additional information, contact:

Jim Bondy
Water and Waste Permits Division
Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

IX. PROPOSED PERMIT LIMITS:

Subsegment 090202, West Pearl River - from confluence with Holmes Bayou to the Rigolets (includes east and west mouths), is listed on LDEQ's Final 2004 303(d) List as impaired for mercury. To date no TMDLs have been completed for this waterbody. A reopener clause will be established in the permit to allow for the requirement of more stringent effluent limitations and requirements as imposed by a TMDL.

The Department believes that there is little reasonable potential for the Town of Pearl River Municipal Sewerage Treatment Plant to cause or contribute to the impairment for mercury. Therefore, limits for mercury will not be included in this permit.

Final Effluent Limits:

OUTFALL 001

Final limits shall become effective on the effective date of the permit and expire on the expiration date of the permit.

Effluent Characteristic	Monthly Avg. (lbs./day)	Monthly Avg.	Weekly Avg.	Basis
CBOD ₅ May – Oct. Nov. - April	41.7 83.4	10 mg/l 20 mg/l	15 mg/l 30 mg/l	Limits are set in accordance with the Town of Pearl River Wasteload Allocation (approved 8/12/87) and the previous LPDES permit.
TSS May – Oct. Nov. - April	62.5 83.4	15 mg/l 20 mg/l	23 mg/l 30 mg/l	Limits are set through BPJ for the type of treatment technology utilized at this facility and in accordance with the previous LPDES permit.
Ammonia-Nitrogen May – Oct. Nov. - April	20.8 41.7	5 mg/l 10 mg/l	10 mg/l 20 mg/l	Limits are set in accordance with the Town of Pearl River Wasteload Allocation (approved 8/12/87) and the previous LPDES permit.
*Dissolved Oxygen	N/A	5 mg/l	N/A	Limits are set in accordance with the Town of Pearl River Wasteload Allocation (approved 8/12/87) and the previous LPDES permit.

*This Dissolved Oxygen limit is the lowest allowable average of daily discharges over a calendar month. When monitoring is conducted, the Dissolved Oxygen shall be analyzed immediately, as per 40 CFR 136.3.

Other Effluent Limitations:

1) Fecal Coliform

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5.b.i, the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Weekly Average) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgement in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

2) pH

According to LAC 33:IX.3705.A.1., POTW's must treat to at least secondary levels. Therefore, in accordance with LAC 33:IX.5905.C., the pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time.

3) Solids and Foam

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:IX.1113.B.7.

X. PREVIOUS PERMITS:

LPDES Permit No. LA0075329: Issued: January 1, 2001
 Expired: December 31, 2005

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Daily Avg.</u>	<u>Daily Max.</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow	Report	Report	Continuous	Recorder
CBOD ₅				
May-October	10 mg/l	15 mg/l	2/month	Grab
November-April	20 mg/l	30 mg/l	2/month	Grab
TSS				
May-October	15 mg/l	23 mg/l	2/month	Grab
November-April	20 mg/l	30 mg/l	2/month	Grab
Ammonia-Nitrogen				
May-October	5 mg/l	10 mg/l	2/month	Grab
November-April	10 mg/l	20 mg/l	2/month	Grab
Dissolved Oxygen	5 mg/l minimum		2/month	Grab
Fecal Coliform				
Colonies/100 ml	200	400	2/month	Grab
pH	Range (6.0 su – 9.0 su)		2/month	Grab

XI. ENFORCEMENT AND SURVEILLANCE ACTIONS:

A) Inspections

A review of the files indicates that the most recent compliance inspection was performed by LDEQ personnel on April 11, 2001. No areas of concern were noted.

B) Compliance and/or Administrative Orders

A review of the files indicates that there are no recent enforcement actions administered against this facility:

C) DMR Review

A review of the discharge monitoring reports for the period beginning July 1, 2003 through March 31, 2005 has revealed the following violations:

<u>Month</u>	<u>Parameter</u>	<u>Permit Limit</u>	<u>DMR Reported Value</u>
October 2003	DO, Monthly Avg.	5 mg/l min.	4.5 mg/l
November 2003	DO, Monthly Avg.	5 mg/l min.	4.0 mg/l
December 2003	DO, Monthly Avg.	5 mg/l min.	2.5 mg/l
January 2004	DO, Monthly Avg.	5 mg/l min.	2.3 mg/l
July 2004	TSS, Monthly Avg.	15 mg/l	19 mg/l
	TSS, Weekly Avg.	23 mg/l	31 mg/l
	TSS (mass), Monthly Avg.	41 lb/day	49 lb/day
December 2004	TSS, Monthly Avg.	15 mg/l	20 mg/l
	TSS (mass), Monthly Avg.	41 lb/day	72 lb/day

XII. ADDITIONAL INFORMATION:

Please be aware that the Department will be conducting a TMDL in the Pearl River Basin scheduled for completion in 2008. The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions as a result of the TMDL. Therefore, prior to upgrading or expanding this facility, the permittee should contact the Department to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

Final effluent loadings (i.e. lbs/day) have been established based upon the permit limit concentrations and the design capacity of 0.50 MGD.

Effluent loadings are calculated using the following example:

$$\text{CBOD: } 8.34 \text{ lb/gal} \times 0.50 \text{ MGD} \times 10 \text{ mg/l} = 41.7 \text{ lb/day}$$

At present, the **Monitoring Requirements, Sample Types, and Frequency of Sampling** as shown in the permit are standard for facilities of flows between 0.10 and 0.50 MGD.

<u>Effluent Characteristics</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow	Continuous	Recorder
CBOD ₅	2/month	Grab
Total Suspended Solids	2/month	Grab
Ammonia-Nitrogen	2/month	Grab
Dissolved Oxygen	2/month	Grab
Fecal Coliform Bacteria	2/month	Grab
pH	2/month	Grab

Pretreatment Requirements

Based upon consultation with LDEQ pretreatment personnel, general pretreatment language will be used due to the lack of either an approved or required pretreatment program.

XIII. TENTATIVE DETERMINATION:

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to reissue a permit for the discharge described in this Statement of Basis.

XIV. REFERENCES:

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 8, "Wasteload Allocations / Total Maximum Daily Loads and Effluent Limitations Policy," Louisiana Department of Environmental Quality, 2005.

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 5, "Water Quality Inventory Section 305(b) Report," Louisiana Department of Environmental Quality, 1998.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 11 - "Louisiana Surface Water Quality Standards," Louisiana Department of Environmental Quality, 2004.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Subpart 2 - "The LPDES Program," Louisiana Department of Environmental Quality, 2004.

Low-Flow Characteristics of Louisiana Streams, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

Index to Surface Water Data in Louisiana, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

LPDES Permit Application to Discharge Wastewater, Town of Pearl River, Pearl River Municipal Sewer Treatment Plant, July 6, 2005.